

## CLAIMS

1. A correlation system for configuring and modifying a control relationship between controlling apparatus and controlled apparatus, said correlation system comprising:  
programming means comprising a hand-held configuration and manually operable by a user to transmit correlation signals to said controlled apparatus and to said controlling apparatus; and  
said controlled apparatus and said controlling apparatus each having sensing means responsive to said correlation signals for effecting said control relationship between said controlled apparatus and said controlling apparatus.
2. A correlation system in accordance with claim 1, characterized in that said correlation signals comprise spatially transmitted signals.
3. A correlation system in accordance with claim 1, characterized in that said programming means comprises:  
a wand having a hand-held configuration;  
a programmable controller;  
switching means manually operable by a user so as to generate state signals as input signals to said programmable controller; and  
said programmable controller is responsive to said state signals so as to execute particular functions as desired by said user.
4. A correlation system in accordance with claim 3, characterized in that said wand further comprises mode selector means, adapted for receiving separate and independent inputs from said user, and further adapted to generate and apply second state signals as input signals to said programmable controller.

5. A correlation system in accordance with claim 4, characterized in that:

said wand further comprises transmitting means for transmitting said correlation signals to said controlled apparatus and to said controlling apparatus; and

said programmable controller is responsive to said state signals and to said second state signals for applying activation signals to said transmission means.

6. A correlation system in accordance with claim 5, characterized in that said transmission means comprises an IR emitter.

7. A correlation system in accordance with claim 1, characterized in that:

said correlation system further comprises a communications network for electronically coupling said controlling apparatus to said controlled apparatus;

said controlled apparatus comprises at least one controlled programmable controller having a unique address identifiable through said communications network of said correlation system; and

said controlled apparatus further comprises sensing means responsive to said correlation signals for applying control signals to said at least one controlled programmable controller.

8. A correlation system in accordance with claim 7, characterized in that said controlling apparatus comprises:

at least one controlling programmable controller having a unique address identifiable through said communications network of said correlation system; and

sensing means responsive to said correlation signals, for applying control signals to said at least one controlling programmable controller.

9. A correlation system in accordance with claim 1, characterized in that said controlling apparatus comprises a plurality of switch units.

10. A correlation system in accordance with claim 1, characterized in that said controlled apparatus comprises a plurality of lighting units.

11. A correlation system in accordance with claim 3, characterized in that said wand further comprises a trigger switch manually operable by said user, so as to generate further state signals as input signals to said programmable controller.

12. A correlation system in accordance with claim 3, characterized in that:  
said wand further comprises a visible light having first and second states; and  
said programmable controller is adapted to selectively generate and apply  
activation signals as input signals to said visible light, so as to change a state of said  
5 visible light between said first and second states.

13. A correlation system in accordance with claim 12, characterized in that:  
said wand further comprises a lens spaced forward of said visible light, with said  
lens being transparent to both visible and infrared light; and  
said lens being a collimating lens for purposes of focusing said visible light into a  
series of parallel light paths.

14. A correlation system in accordance with claim 1, characterized in that said system comprises a plurality of separate and independent programming means.

15. A correlation system in accordance with claim 4, characterized in that said mode selector means is adapted to generate and apply said second state signals to said programmable controller as signals indicative of SET, ADD and REMOVE command signals.

16. A correlation system in accordance with claim 1, characterized in that said controlled apparatus comprises transmission means for transmitting address code signals to said programming means, where such address code signals are representative of a unique address of said controlled apparatus.

17. A correlation system in accordance with claim 16, characterized in that each of said wands includes means for indicating successful reception and execution of command signals.

18. A correlation system in accordance with claim 17, characterized in that said means for indicating successful reception and execution of command signals comprises a visible light.

19. A method for use in a correlation system for configuring and modifying a control relationship between controlling apparatus and controlled apparatus, said method comprising:

using a programming means comprising a hand-held configuration manually operable by a user so as to transmit correlation signals to said controlled apparatus and to said controlling apparatus;

sensing, at said controlled apparatus, receipt of said correlation signals;

sensing, at said controlling apparatus, receipt of said correlation signals; and

effecting said control relationship between said controlled apparatus and said controlling apparatus based on said transmitted correlation signals.

20. A method for use in a correlation system for configuring and modifying a control relationship between controlling apparatus and controlled apparatus, said method comprising:

configuring a programming means comprising a hand-held configuration manually operable by a user so as to transmit correlation signals to said controlled apparatus;

transmitting further correlation signals from said programming means to said controlled apparatus;

determining, through programmable processes, prior sets of correlation signals transmitted by said programming means;

determining a next prior set of correlation signals transmitted to said controlling apparatus; and

effecting a particular control relationship between said controlled apparatus and said controlling apparatus based on a sequential relationship existing between transmission of said correlation signals to said controlled apparatus and said correlation signals to said controlling apparatus.

21. The method in accordance with claim 19, characterized in that said method further comprises means for configuring a particular controlling apparatus so as to control states of a plurality of controlled apparatus.

22. The method in accordance with claim 19, characterized in that said method further comprises steps for effecting a master/slave relationship among two or more of said controlled apparatus.

23. A method for use in a correlation system for configuring and modifying a control relationship between sets of switches and sets of lights, said method comprising:

using a hand-held and manually operable wand having transmission means for transmitting a first particular command signal C to switch S, where C is representative of

the sequence number of the command signal from said wand, and S is representative of the particular switch to which the command signal is transmitted;

transmitting a second particular command signal C+1 to light L, where L is representative of a particular one of said lights to which said command signal C+1 is transmitted;

transmitting a third particular command signal C+2 to light M, where M is representative of a particular one of said lights to which said command signal C+2 is transmitted;

transmitting a forth particular command signal C+3 to light N, where N is representative of a particular one of said lights to which said command signal C+3 is transmitted;

transmitting a fifth particular command signal C+4 to switch T, where T is representative of a particular one of said set of switches to which said command signal C+4 is transmitted;

determining that said command signal C+3 was a command signal to said light N;

effecting control of said light N by said switch T;

determining that said command signal C+2 was a command signal to said light M;

effecting control of said light M by said switch T;

determining that said command signal C+1 was a command signal to said light L;

effecting control of said light L by said switch T;

determining that said command signal C was a command signal to said switch S;

and

determining that a particular sequential configuration of control has been completed.

24. A method in accordance with claim 23, characterized in that said method further comprises the steps of:

transmitting a sixth particular command signal C+5 to switch U, where U is representative of a particular one of said switches to which said command signal C+5 is transmitted;

determining that said command signal C+4 is a command signal transmitted to switch T; and

effecting said control relationship so that switch U is a master switch for control of said lights L, M and N, and said switch T is slaved to said switch U.

25. A method for use in a correlation system for configuring and modifying a control relationship between sets of switches and sets of lights, said method comprising:

using a hand-held and manually operable wand having transmission means for transmitting command signals to certain ones of said lights;

transmitting further command signals to particular ones of said switches; and

removing a controlling relationship between said certain ones of said switches and such certain ones of said lights, based upon said command signals and said further command signals.